Amendments to the Abstract:

Please amend the abstract as follows:

A battery ECU estimates the SOC by integrating the battery current measured by a current sensor, and the battery voltage V_n is measured by a voltage sensor and the battery temperature T_n is measured by a thermometer if the fluctuation of the charging/discharging current is great ~~(S204)~~. If the number m of estimations of SOC_n is m<10, m is incremented ~~(S208)~~. The battery internal resistance R_n is estimated from the measured battery temperature T_n by using a correlation map showing the correlation between the previously stored battery temperature T and the battery internal resistance R ~~(S210)~~. An estimation charging/discharging current I_n is determined using the measured battery voltage V_n, the battery open voltage V_{ocvn-1} determined on the basis of the previously estimated charged state, and the estimated battery internal resistance R_n ~~(S212)~~. The SOC_n is estimated by integrating the estimated charging/discharging current I_n ~~(S214)~~. If the number m of estimations of the SOC_n is m=10 ~~(S206)~~, the number m of estimations is changed to 0 ~~(S220)~~. The charging/discharging current i_n is measured by a current sensor ~~(S222)~~. The battery internal resistance R_n is calculated from the battery voltage V_n and the charging/discharging current i_n ~~(S224)~~. The battery temperature T_n is also measured, and the T-R correlation map is corrected ~~(S226)~~.